

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/17/05

Date Received: 01/06/05

Project: Metro Self Monitor, PO# M105532, F&BI 501035

Date Extracted: 01/13/05

Date Analyzed: 01/13/05

**RESULTS FROM THE ANALYSIS OF WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M105532 501035-01	0.42	0.51	0.53	0.07
Method Blank	<0.05	<0.05	<0.10	<0.05

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Project: Metro Self Monitor, PO# M105532, F&amp;BI 501035

**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 501035-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.42	0.37	13	0-20
Copper	mg/L (ppm)	0.51	0.47	8	0-20
Nickel	mg/L (ppm)	0.53	0.45	16	0-20
Zinc	mg/L (ppm)	0.07	<0.05	nm	0-20

Laboratory Code: 501035-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	5	0.42	78	50-150
Copper	mg/L (ppm)	5	0.51	83	50-150
Nickel	mg/L (ppm)	10	0.53	77	50-150
Zinc	mg/L (ppm)	5	0.07	78	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	mg/L (ppm)	5	92	70-130
Copper	mg/L (ppm)	5	94	70-130
Nickel	mg/L (ppm)	10	92	70-130
Zinc	mg/L (ppm)	5	92	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

501035

## SAMPLE CHAIN OF CUSTODY

CM 01-06-05

AI

Send Report To

GERARD Thompson

Company

ALASKAN Copper Works

Address

628 S. Hanford ST

City, State, ZIP

Seattle WA 98134

Phone #

206-382-8379

Fax #

206-382-4709

SAMPLER (signature)

PROJECT NAME/NO.

METRO SELF monitor

PO #

M105532

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes		
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS							
M105532	01	1/6/05	12:00	H2O	1													

Friedman & Bruya, Inc.  
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

G. Thompson

Nhan Phan

COMPANY

ALW

Friedman &amp; Bruya

DATE

1/6/05

1/6/04

TIME

1:00pm

V



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 17, 2005

**DUPLICATE COPY**

**INVOICE # 05ACU0117-2**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M105532, F&BI 501035 - Results of testing  
requested by Gerry Thompson for material submitted on January 6, 2005.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	<u>\$ 80.00</u>
Amount Due .....	\$ 80.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

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e-mail: fbi@isomedia.com

January 17, 2005

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

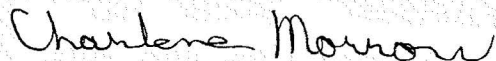
Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 6, 2005 from the Metro Self Monitor, PO# M105532, F&BI 501035 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow  
Chemist

Enclosures  
ACU0117R.DOC